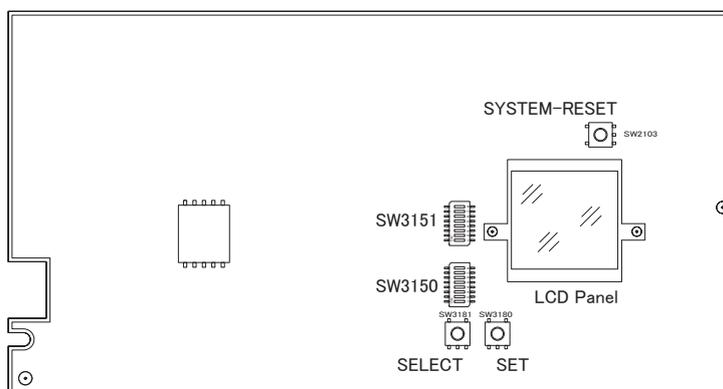
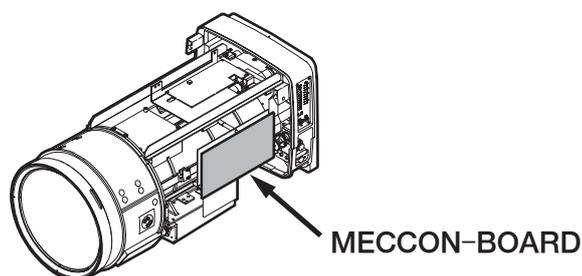


# LCD PANEL USER MANUAL

- ◆ This product has adopted a method of operation using menus on the LCD panel, which allows performing further detailed settings, besides the settings performed conventionally using the dip switches.

Note : When the settings made using the dip switches on the MECCON board and those made using the LCD panel are different, the function set to "OFF" by either method will operate as the "OFF" setting.  
( The "OFF" setting has higher priority. )



MEMO

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# 1 OVERVIEW OF THE MENU OPERATIONS

## 1.1 LIST OF OPERATION CONTENTS

Use the following procedure to set the lens functions using the menus on the LCD panel:

- ① When the power is turned on, the TOP menu (STS) screen appears.
- ② Select “MENU1” and then “MENU2” on the STS screen to select the operation screen.
- ③ Select the desired menu item displayed on each screen and go to the submenu screen.
- ④ Set the parameter values on the setting screens corresponding to each menu item.

An overview of the functions that can be set using the menus on the LCD panel is provided in the following pages:

MEMO

TOP menu	Selection item	Submenu 1	Submenu 2	Value setting screen	Default value	Function description
STS	FCS			DRIVER/ CONTROL	—	Displays the types of driver modules and control units used for the focusing operation.
	ZOM			DRIVER/ CONTROL	—	Displays the types of driver modules and control units used for the zooming operation.
	IRS			DRIVER/ CONTROL	—	Displays the types of driver modules and control units used for the iris operation.
	EXT			—	—	Displays the extender status.
	STB			DRIVER	—	Displays the stabilizer control direction and compensation mode.
	BF BF-BAR			CONTROL	—	Displays the control mode of the master lens (macro / back focus). Displays the back focus position.
↓ ▽ To go to the next screen (MENU1), select "▽ MENU."						
MENU1	DIPSW(1/2)					
	*1	SW3151	BACKLIGHT TALLY- ADJUST	— — —	*5 *5 —	LCD backlight adjustment ON/OFF Tally light level (TALLY_LOW) adjustment ON/OFF
			RESERVE 0-6 RESERVE 0-5 RESERVE 0-4 RESERVE 0-3	— — — —	*5 *5 *5 *5	— — — —
	*1		CAM[2] CAM[1]=	— —	*5 *5	Camera manufacturer selection *6
To return to MENU1, select "↵ RETURN."、To go to the SW3150 screen, select "▽ NEXT."						
	DIPSW(2/2)					
	*1	SW3150	RESERVE 1-8 Z/F-CUSTOM	— —	*5 *5	— Focus/zoom customization function ON/OFF
			RESERVE 1-6 IRIS-CLOSE	— —	*5 *5	— Iris forced close function
	*1		IRIS-COMP	—	*5	Iris compensation function ON/OFF
	*1		IRIS-GAINUP	—	*5	Auto iris increase gain function (ON=1/8, OFF=1/16)
	*4		BCT	—	*5	Field angle compensation function (BCT function) ON/OFF
			CAMERA-SER	—	*5	Camera serial communication ON/OFF
To return to MENU1, select "↵ RETURN."、To return to the SW3151 screen, select "△ BACK."						
	FW-VER					
		SFUP-VER	S-UPDATE	xxxxxxxxxxx	—	Displays the firmware 1 version. Maintenance menus (Operation is not allowed.)
		MFUP-VER	M-UPDATE	xxxxxxxxxxx	—	Displays the firmware 2 version. Maintenance menus (Operation is not allowed.)
		XFUP-VER	X-UPDATE	xxxxxxxxxxx	—	Displays the firmware 3 version. Maintenance menus (Operation is not allowed.)
	↵				—	Returns to the parent screen (MENU1).
Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).						
	USB					
	*2	HOST/DEVICE	HST DEV	HOST/DEVICE Select/Unselect Select/Unselect	DEVICE — —	Displays the USB driver mode. Host Mode setting (*2) Device Mode setting Returns to the parent screen. Returns to the parent screen (MENU1).
	↵					Returns to the parent screen (MENU1).
Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).						
	ZOOM1					
		CURVE-A	DEFAULT/ ADJUST/CUSTOM	DEFAULT/ Select/Unselect Select/Unselect	DEFAULT — —	Displays the status of zoom compensation CURVE-A. Sets the characteristics of zoom compensation CURVE-A to "DEFAULT." Sets the characteristics of zoom compensation CURVE-A to "ADJUST."
		A-ADJ	CUSTOM	Select/Unselect 0 ~ 99	— 50	Sets the characteristics of zoom compensation CURVE-A to "CUSTOM." Displays the adjustment value of zoom compensation CURVE-A.
		CURVE-B	DEFAULT/ ADJUST/CUSTOM	DEFAULT/ Select/Unselect Select/Unselect	DEFAULT — —	Displays the status of zoom compensation CURVE-B. Sets the characteristics of zoom compensation CURVE-B to "DEFAULT." Sets the characteristics of zoom compensation CURVE-B to "ADJUST."
		B-ADJ	CUSTOM	Select/Unselect 0 ~ 99	— 50	Sets the characteristics of zoom compensation CURVE-B to "CUSTOM." Displays the adjustment value of zoom compensation CURVE-B.
		CURVE-N	DEFAULT/ ADJUST/CUSTOM	DEFAULT/ Select/Unselect Select/Unselect	DEFAULT — —	Displays the status of zoom compensation CURVE-N. Sets the characteristics of zoom compensation CURVE-N to "DEFAULT." Sets the characteristics of zoom compensation CURVE-N to "ADJUST."
		N-ADJ	CUSTOM	Select/Unselect 0 ~ 99	— 50	Sets the characteristics of zoom compensation CURVE-N to "CUSTOM." Displays the adjustment value of zoom compensation CURVE-N.
	▽ ↵					Goes to the next screen (ZOOM2). Returns to the parent screen (MENU1).
Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).						
	ZOOM2					
	*4	V-STOP	BCT	0 ~ 99 ON/OFF	50 OFF *7	Setting value of the speed to be applied when zooming is stopped. Current status of the Breathing Compensation Technology (BCT)
	△ ↵					Returns to the previous screen (ZOOM1). Returns to the parent screen (MENU1).
Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).						
	FOCUS					
		CURVE-N	DEFAULT/ ADJUST/CUSTOM	DEFAULT/ Select/Unselect Select/Unselect	DEFAULT — —	Displays the status of focus compensation CURVE-N. Sets the characteristics of focus compensation CURVE-N to "DEFAULT." Sets the characteristics of focus compensation CURVE-N to "ADJUST."
		N-ADJ	CUSTOM	Select/Unselect 0 ~ 99	— 50	Sets the characteristics of focus compensation CURVE-N to "CUSTOM." Displays the adjustment value of focus compensation CURVE-N.
		CURVE-F	DEFAULT/ ADJUST/CUSTOM	DEFAULT/ Select/Unselect Select/Unselect	DEFAULT — —	Displays the status of focus compensation CURVE-F. Sets the characteristics of focus compensation CURVE-F to "DEFAULT." Sets the characteristics of focus compensation CURVE-F to "ADJUST."
		F-ADJ	CUSTOM	Select/Unselect 0 ~ 99	— 50	Sets the characteristics of focus compensation CURVE-F to "CUSTOM." Displays the adjustment value of focus compensation CURVE-F.
	↵					Returns to the parent screen (MENU1).
Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).						
	IRIS					
		GAINUP	IRIS-COMP	1/8,1/16 ON/OFF	1/8 ON	Sets the gain of the iris in auto iris mode. (ON=1/8,OFF=1/16) Sets the iris compensation function (ON/OFF) when using the built-in extender.
	*3	FORCED-CLOSE		ON/OFF	ON	Sets the iris forced close function to be performed during iris compensation. *3 Returns to the parent screen.
Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).						
	EXTENDER					
	↵					Returns to the parent screen (MENU1).
Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).						
	▽ ↵					Goes to the next screen (MENU2). Returns to the parent screen (TOP).
Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).						
To go to the MENU2 screen, select "▽ SELECT" to move the cursor to the [▽] symbol on the screen and then select "✓ SET." To return to the TOP (STS) screen, select "▽ SELECT" to move the cursor to the [↵] symbol on the screen and then select "✓ SET."						

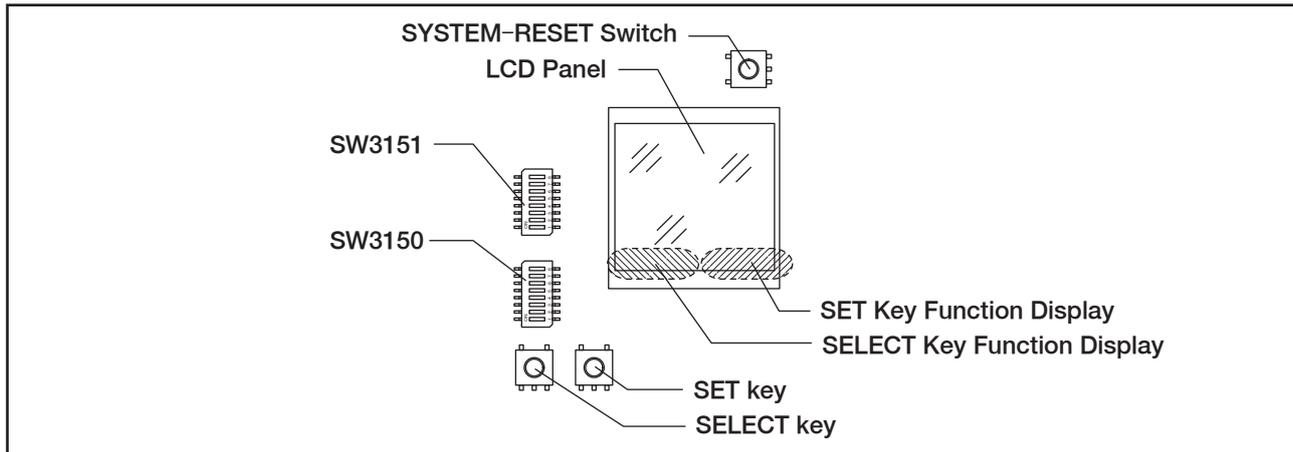
TOP menu	Selection item	Submenu 1	Submenu 2	Value setting screen	Default value	Function description
MENU2	BF					Returns to the parent screen (MENU2).
		Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).				
	STBI	PUSH-SW		MOMENT/ALT *9	ALT *9	Sets the operation of the ON/OFF switch of the stabilizer controller. MOM = Momentary switch (Sets the stabilizer to ON while pressing the switch.) ALT = Alternate switch (Every time the switch is pressed, the stabilizer function switches between ON and OFF.)
		STD SET		DEF/CUSTOM	DEF	Sets the stabilizer characteristics in STD. mode.
			DEFAULT	Select/Unselect	—	Default value
			CUSTOM	Select/Unselect	—	The stabilizer characteristics are selectable.
			INTENSIV	1 ~ 8	1	The stabilization strength can be set in 8 stages.
			LOW AMPL	ON/OFF	ON	When set to "ON" , stabilization continues when the camera is static.
			FN			
		HIGH SET		DEF/CUSTOM	DEF	Sets the stabilizer characteristics in HIGH mode.
			DEFAULT	Select/Unselect	—	Default value
			CUSTOM	Select/Unselect	—	The stabilizer characteristics are selectable.
			INTENSIV	1 ~ 8	1	The stabilization strength can be set in 8 stages.
			LOW AMPL	ON/OFF	ON	When set to "ON" , stabilization continues when the camera is static.
	Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).					
SETTING *8	STORE-SETTING		No-MEM/File/Host	—	Saves the set or adjusted value in an external USB memory.	
			START/PROCESSING	—	Starts saving the value in a USB memory.	
	READ-SETTING		No-MEM/File/Host	—	Restores the set or adjusted value after it is saved, from an external USB memory.	
*8	FACTORY-DEFAULT		START/PROCESSING	—	Starts saving the value in a USB memory.	
			START	—	Restores all settings to default.	
			PROCESSING	—	Processing in progress.	
	Returns to the parent screen (MENU2).					
	Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).					
OTHERS	BACKLIGHT		0 ~ 99 *10	50 *10	Sets the backlight level (0 to 99) of the LCD panel.	
	TALLY_LOW		0 ~ 99	25/70 *11	Sets the tally_low bright level (0 to 99).	
					Returns to the parent screen (MENU2).	
	Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).					
	△				Returns to the previous screen (MENU1).	
	↵				Returns to the parent screen (TOP).	
	Selects "▽ SELECT" to select an item. Selects "✓ SET" to set the selected item (a new screen appears).					

To return to the MENU1 screen, select "▽ SELECT" to move the cursor to the [△] symbol on the screen and then select "✓ SET."  
 To return to the TOP (STS) screen, select "▽ SELECT" to move the cursor to the [↵] symbol on the screen and then select "✓ SET."

- \*1 When the corresponding dip switch on the MECCON board is set to "ON," the ON/OFF setting can be made using the menus on the LCD panel.
- \*2 To enable HOST mode of the USB driver, the system must be reset after setting the HOST mode using the "USB" menu. (Normally, the system is activated in DEVICE mode.)
- \*3 The "FORCED-CLOSE" submenu completely closes the iris when the iris closing signal is input from the camera while the lens is operating in iris compensation mode.
- \*4 The Breathing Compensation Technology corrects the phenomenon (breathing) that causes the field angle to change due to focusing operation.
- \*5 Displays the status of the DIP switches on the MECCON board. (Refer to page 37)
- \*6 On the HZK series, STD is displayed instead of the camera manufacturer.
- \*7 The setting is ON on the UA27/HZK25-1000 and OFF on other models.
- \*8 To use a USB memory, the USB driver of this product must be activated in HOST mode. Do not insert or remove the USB memory in HOST mode.
- \*9 This function is not available for models without the built-in optical stabilizer.
- \*10 When the DIP switch of the backlight is set to OFF, "0" is displayed.
- \*11 The default setting is 70 on the UA27 and 25 on other models.

## MEMO

## 1.2 NAMES OF PARTS AND THEIR FUNCTIONS



SYSTEM-RESET Switch	Reboots the entire lens. The TOP screen, which is the status (STS) screen, appears on the LCD panel.
LCD Panel	Displays the setting data and status.
SELECT key	The [SELECT] key is a push switch used for selecting an item and screen. Every time this switch is pressed, the LCD panel is operated in accordance with the function displayed at the bottom left of the LCD panel screen. When the [SELECT] key is pressed while the function display of this key indicates "▽MONITOR," the MONITOR screen appears. When the [SELECT] key is pressed while the function display of this key indicates "▽SELECT," the key functions as the item selection key. When the [SELECT] key is pressed while the function display of this key indicates "↶RETURN," the parent screen reappears.
SET key	The [SET] key enables operation of an item at the cursor location. ✓SET = Enables the setting and item selection operations. If the selected item has submenus (lower-level menus), the submenu screen appears. When there are no lower-level menus, "✓SET" is used to change the setting of the selected item and save the new setting. ▽NEXT = Goes to the next screen. △BACK = Goes to the previous screen.
SW3151	This dip switch is used for setting operations, the same as in the conventional model. The "OFF" setting of this switch has higher priority over the setting made using the menus on the LCD panel. Therefore, the functions that were set to "OFF" using this switch cannot be set to "ON" using the menus on the LCD panel.
SW3150	This dip switch is used for setting operations, the same as in the conventional model. The "OFF" setting of this switch has higher priority over the setting made using the menus on the LCD panel. Therefore, the functions that were set to "OFF" using this switch cannot be set to "ON" using the menus on the LCD panel.

Use the following steps to perform the setting operation using the menus on the LCD panel :

Press the [SELECT] key to select a desired item

→ Press the [SET] key to set the selected item (setting the item or going to the next step).

•When there is a lower-level menu:

Go to the lower-level menu → Perform the operation in accordance with setting items on the lower-level menu.

•When there is no lower-level menu:

Press the [SELECT] key to select a desired setting (ON/OFF or other values) → Press the [SET] key.

**Note :** When an item is selected by using "▽SELECT" indicated on the function display, the cursor will move downward only. Every time the [SELECT] key is pressed, the item selection cursor moves down one line from the current cursor location. When the cursor reaches the last item location, it returns to the topmost item.

### ★ Operation symbol meanings

The [▽] symbol is used to move the cursor down one line from the current cursor location or go to the next menu and the [△] symbol is used to go to the previous menu.

The [↶] symbol is used to go to the TOP (STS) screen or parent screen.

The [✓] symbol is used as the button for the setting operation.

### ★ Resetting the settings to default

To restore all settings made using the menus on the LCD panel to default, select "SETTING" menu of MENU2 → "FACTORY-DEFAULT" submenu to perform the initialization operation.

Immediately after the setting of the "FACTORY-DEFAULT" submenu is performed, default settings are used for system operations.

**Note :** If any trouble occurs in the lens operation, press the system reset switch and restart the lens. If restarting the lens does not solve the problem, please contact our agency.

## 1.3 PROCEDURE OF LCD PANEL OPERATION

### ★ Selecting the operation screen

When the power of the lens is turned on, the STS screen (status display) appears.

When the [SELECTSET] button is pressed while “▽MENU” is displayed in the last line (bottom frame) of the screen, the next screen (MENU1) appears. On the other hand, every time the [SELECT] key is pressed while “▽SELECT” is displayed at the bottom of the MENU1 screen, the cursor on the screen moves down one line and the selected item changes. When the cursor is moved to the [▽] symbol and the [SET] key is pressed, the MENU2 screen appears.

Status display (STS) screen

TOP		
STS	DRIVER	CONTROL
FCS	NORMAL	DEMAND
ZOM	HIGH	PC
IRS	AUTO	CAMERA
EXT	x1	
STB	H : HIGH	V : HIGH
BF	BF-BAR	MAC-SW
	F	N
▽MENU		

When the [SELECT] key (“▽MENU”) is pressed, the “MENU screen” appears.



MENU1 SCREEN (MENU1)

MENU		1/2
▷	DIPSW	
	FW-VER	
	USB	
	ZOOM	
	FOCUS	
	IRIS	
	EXTENDER	
	▽	
	↶	
▽ SELECT		✓ SET

Dip switch setting status check menu  
Firmware version check menu  
USB mode setting operation menu  
Zooming operation setting menu  
Focusing operation setting menu  
Iris operation setting menu  
Extender operation setting menu  
Goes to the next screen (MENU2)  
Returns to the TOP (STS) screen

When the [SELECT] key (“▽SELECT”) is pressed, the cursor, which indicates the currently selected item, moves down one line from the current cursor location.

When the [SET] key (“✓SET”) is pressed, the submenu function screen at the cursor location appears.

When the cursor is moved to the [▽] symbol and the [SET] key is pressed, the next screen (MENU2) appears.

When the cursor is moved to the [↶] symbol and the [SET] key is pressed, the TOP (STS) screen reappears.



MENU2 SCREEN (MENU2)

MENU		2/2
▷	BF	
	STBI	
	SETTING	
	OTHERS	
	△	
	↶	
▽ SELECT		✓ SET

Back focus operation setting menu  
Stabilizer ON/OFF switch function setting menu  
Parameter operation menu (Save/read)  
Other functions  
Returns to the previous screen (MENU1).  
Returns to the TOP (STS) screen.

When the cursor is moved to the [△] symbol and the [SET] key (“✓SET”) is pressed on the MENU2 screen, the previous screen (MENU1) reappears. When the cursor is moved to the [↶] symbol and the [SET] key (“✓SET”) is pressed, the TOP (STS) screen reappears.

Example of procedures for opening a lower-level screen and changing a setting value (MENU1 → ZOOM)

MENU1 SCREEN (MENU1)

MENU	1/2
DIPSW	
FW-VER	
USB	
▶ ZOOM	
FOCUS	
IRIS	
EXTENDER	
▽	
↵	
▽SELECT	✓ SET

- Dip switch setting status check menu
- Firmware version check menu
- USB mode setting operation menu
- Zooming operation setting menu
- Focusing operation setting menu
- Iris operation setting menu
- Extender operation setting menu
- Goes to the next screen (MENU2)
- Returns to the TOP (STS) screen

Press the [SET] key (select “✓SET”) when the cursor is displayed on the left side of the “ZOOM” menu.



Zooming operation setting screen

ZOOM1	(1/2)
▶ CURVE-A	xxxxxxxx
A-ADJ	xx
CURVE-B	xxxxxxxx
B-ADJ	xx
CURVE-N	xxxxxxxx
N-ADJ	xx
▽	
↵	
▽SELECT	✓ SET

- Displays the status of zoom compensation CURVE-A.
- Displays the setting value of zoom compensation CURVE-A.
- Displays the status of zoom compensation CURVE-B.
- Displays the setting value of zoom compensation CURVE-B.
- Displays the status of zoom compensation CURVE-N.
- Displays the setting value of zoom compensation CURVE-N.
- Goes to the next screen (ZOOM2).

Returns to the parent screen (MENU1).



Selecting a new setting  
(MENU1,ZOOM,CURVE-A etc.)

ZOOM1	1/1
▶ CURVE-A	1/1
A-ADJ	▶ DEFAULT
CURVE-B	ADJUST
B-ADJ	CUSTOM
CURVE-N	↵
N-ADJ	
▽	
↵	
▽SELECT	✓ SET

- ① To open the setting value selection screen, select the name of an item (for which a new value is set) on a higher-level screen, and then press the [SET] key.
- ② Move the cursor to the location of a desired setting value (DEFAULT, ADJUST, or CUSTOM).
- ③ Press the [SET] key.
- ④ The new setting is stored in the memory, and the higher-level screen reappears.
- ⑤ Confirm that the new setting value has been applied.

★ Note: To cancel the setting operation, move the cursor to the [↵] symbol and then press the [SET] key. The higher-level screen reappears.

Setting a numerical value  
(MENU1,ZOOM,A-ADJUST etc.)

ZOOM1	1/1
▶ CURVE-A	SET-NUM 1/1
A-ADJ	(A) - (B) +
CURVE-B	Y
B-ADJ	
CURVE-N	
N-ADJ	(C) - (D) -
▽	UPDATE
↵	↵
▽SELECT	✓ SET

- ① To open the SET-NUM screen, select the name of an item for which to set a new value and then press the [SET] key.
- ② Move the cursor to the location to be changed.  
( On the SET-NUM screen, the cursor moves in a repeating loop of the following sequence: (A) higher order digit “+” → (B) lower order digit “+” → (C) higher order digit “-” → (D) lower order digit “-” → (E) “UPDATE” → (F) [↵] → (A) higher order digit “+” )
- ③ Move the cursor to “+” or “-” and then press the [SET] key.
- ④ Every time the [SET] key is pressed, the numerical value of the digit at the cursor location will increment or decrement.
- ⑤ After setting the numerical values of the higher order and lower order digits, move the cursor to “UPDATE” and press the [SET] key.
- ⑥ The new setting is stored in the memory, and the higher-level screen reappears.
- ⑦ Confirm that the numerical values have been applied.

## 2 BASIC OPERATION FLOW

On this system, the setting values for each item are operated using a hierarchical menu structure comprised of multiple menu screens and submenu screens associated with the selected item.

The functions of the [SELECT] key (switch) and [SET] key (switch) change depending on the settings data.

The function of the [SELECT] key is displayed on the left side of the last line on the LCD panel screen and function of the [SET] key is displayed on the right side of the last line on the screen.

The functions to be assigned to the [SELECT] key and [SET] key are as follows:

Panel screen	Indication of the [SELECT] key	Indication of the [SET] key	Function
TOP (STS screen)	▽MENU	✓—	When the [SELECT] key is pressed, the MENU screen appears. No function is assigned to the [SET] key.
Regular operation screens (MENU screen, etc.)	▽SELECT	✓SET	When the [SELECT] key is pressed, an item is selected. When the [SET] key is pressed, the selected item is set (setting screen or submenu screen appears).
DIPSW screen (1/2)	↶RETURN	▽NEXT	When the [SELECT] key is pressed, the parent screen (TOP screen) reappears. When the [SET] key is pressed, the next screen appears.
DIPSW screen (2/2)	↶RETURN	△BACK	When the [SELECT] key is pressed, the parent screen (TOP screen) reappears. When the [SET] key is pressed, the previous screen appears.

The change screen symbols ([▽], [△], and [↶]) displayed as selection items on the LCD panel indicate the following operations:

▽	Go to the next screen.
△	Return to the previous screen.
↶	Returns to the parent screen.

### 2.1 POWERING ON AND TOP SCREEN (STS SCREEN)

On this system, the STS (system status display) screen appears as the TOP screen after the power of the lens is turned on. The STS screen shows a list of system configuration devices that are connected to the lens in order to enable confirmation of whether or not the connected devices are suitable for the intended purpose.

**Note** : The STS screen is used for confirming the system configuration only. The settings cannot be changed on this screen.

- ① When the [SELECT] key is pressed on the STS screen, MENU1 screen appears in accordance with the indication of “▽MENU.”

### 2.2 MENU1 SCREEN

The MENU1 screen is used for the dip switch setting status check operation, firmware update operation, USB driver mode setting operation, zooming/focusing/iris characteristics setting operation, and extender operation.

- ① Move the cursor to an item on the screen and press the [SET] key to display the submenu screen of the selected item.
- ② Set the parameters (specifying the mode, switching the ON/OFF setting, or setting a numeric value) corresponding to the setting data of each item in the submenu.
- ③ Move the cursor to the location of the screen change symbol ([▽], [△], or [↶]) and press the [SET] key to display another screen. (Moving the cursor to the [△], [▽], and [↶] symbols display the previous screen, next screen (MENU2), and TOP screen, respectively.)

### 2.3 MENU2 SCREEN

The MENU2 screen is used for the back focus adjustment operation (used for both flange focal length and macro operations), the stabilizer ON/OFF switch function setting, the parameter operations (save/restore and initialization), and the brightness adjustment operation of LED lamps.

- ① Move the cursor to an item on the screen and press the [SET] key to display the submenu screen of the selected item.
- ② Set the parameters (specifying the mode, switching the ON/OFF setting, or setting a numeric value) corresponding to the setting data of each item in the submenu.
- ③ Move the cursor to the location of the screen change symbol ([▽], [△], or [↶]) and press the [SET] key to display another screen. (Moving the cursor to the [△] and [↶] symbols display the previous screen and TOP screen, respectively.)

### 3 DISPLAY OF TOP SCREEN (STS SCREEN)

The STS (status display) screen, which appears when the power of the lens is turned on, displays the statuses of the servo module and controller used in the system.

- ① The STS screen is used for displaying the system statuses only. The items or settings cannot be changed on this screen.
- ② To change the setting, press the [SELECT] or [SET] key to move to the MENU1 or MENU2 screen.  
The MENU1 screen can be displayed by simply pressing the [SET] key from the STS screen.

STS screen

TOP		1/1	
> STS	DRIVER	CONTROL	Title of device to be displayed
FCS	XXXXX	xxxxxxxx	Status of focusing control
ZOM	XXXXX	xxxxxxxx	Status of zooming control
IRS	XXXXX	xxxxxxxx	Status of iris control
EXT	XXXXX		Status of extender control
STB	H : XXXX	V : XXXX	Status of stabilizer control
BF	BF-BAR	MAC-SW	Status of master lens control
			Back focus (flange focal length) adjustment position display
▽MENU		✓ SET	

↑ Types of devices to be displayed  
 ↑ Driver module used by a device  
 ↑ Controller connected to a device

#### 3.1 CONFIGURATION STATUS OF FOCUS (FCS) RELATED DEVICES

The types and statuses of devices connected to the focus control unit are as follows:

Connected devices	Items to be displayed	Description
DRIVER (Driving device)	NORMAL	Standard servo module
	HIGH	High-speed servo module
	NO-MT	(No servo module is connected.)
CONTROL (Control device)	DEMAND	Control demand control
	PC	PC remote control
	CAM-PAR	Camera control (Parallel control)
	CAM-SER	Camera control (Serial control)
	IDLE	Waiting for a command
	PRESET	PRESET operation status

#### 3.2 CONFIGURATION STATUS OF ZOOM (ZOM) RELATED DEVICES

The types and statuses of devices connected to the zoom control unit are as follows:

Connected devices	Items to be displayed	Description
DRIVER (Driving device)	NORMAL	Standard servo module
	HIGH	High-speed servo module
	NO-MT	(No servo module is connected.)
CONTROL (Control device)	DEMAND	Control demand control
	PC	PC remote control
	CAM-PAR	Camera control (Parallel control)
	CAM-SER	Camera control (Serial control)
	IDLE	Waiting for a command
	PRESET	PRESET operation status

#### 3.3 CONFIGURATION STATUS OF IRIS (IRS) RELATED DEVICES

The types and statuses of devices connected to the iris control unit are as follows:

Connected devices	Items to be displayed	Description
DRIVER (Driving device)	AUTO	Auto iris control
	REMOTE	Remote iris control
CONTROL (Control device)	CTL	Iris controller control
	PC	PC remote control
	CAM-PAR	Camera control (Parallel control)
	CAM-SER	Camera control (Serial control)
	IDLE	Waiting for a command
	DEMAND	Iris control with digital zoom demand

### 3.4 CONFIGURATION STATUS OF EXTENDER (EXT)

The types and statuses of devices connected to the extender are as follows:

Connected devices	Items to be displayed	Description
DRIVER (Driving device)	x1	No extender (X1)
	EXT	Standard extender (X2)
	AUX	Optional extender
	PJ	System reserved
	—	(Switching in progress)

### 3.5 CONFIGURATION STATUS OF OPTICAL STABILIZER (STB)

The status of the optical stabilizer is as follows:

(This function is not available for models without the built-in optical stabilizer.)

Connected devices	Items to be displayed	Description
DRIVER (Driving device)	H:xxxx V:xxxx	H:xxxx = Horizontal stabilization status, V:xxxx = Vertical stabilization status  HIGH = HIGH mode STD = STD. mode OFF = OFF (No stabilization)
	H: — V: —	No optical stabilizer

### 3.6 CONFIGURATION STATUS OF FLANGE FOCAL LENGTH (BF) RELATED DEVICES

The types and statuses of devices connected to the flange focal length control unit are as follows:

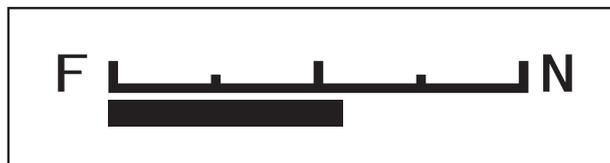
Connected devices	Items to be displayed	Description
DRIVER (Driving device)	BF-BAR	(Displays the flange focal length position display bar on the lower portion of the screen.)
CONTROL (Control device)	MAC-SW	The macro switch is set to "ON."
	FFCNT	Flange focal length is adjustable.
	PC	PC remote control
	MAC-POS	Status where a position control type macro controller is connected.
	MAC-SPD	Status where a speed control type macro controller is connected.
	MAC-DEM	Connection status of macro control of digital zoom demand.

### 3.7 DISPLAY OF BACK FOCUS POSITION (BF-POS)

BF-BAR is used for displaying the current flange focal length position or macro (master lens) position.

F end = The lens is set to the infinity ("Far") side.

N end = The lens is set to the MOD ("Near") side.



## 4 OPERATION ON MENU1 SCREEN

### 4.1 DIP SWITCH SETTING STATUS CHECK MENU

**Note :** The DIPSW screen is used for viewing the dip switch setting statuses only. The settings cannot be changed on this screen.

MENU1 screen

MENU	1/2	
> DIPSW		Dip switch setting status check menu
FW-VER		Firmware version check menu
USB		USB mode setting operation menu
ZOOM		Zooming operation setting menu
FOCUS		Focusing operation setting menu
IRIS		Iris operation setting menu
EXTENDER		Extender operation setting menu
▽		Goes to the next screen (MENU2)
↵		Returns to the TOP (STS) screen
▽SELECT	✓ SET	

To go to the “DIPSW” screen, press the [SET] key.



SW3151

SW3151	1/2	
> BACKLIGHT	ON/OFF	LCD backlight ON/OFF
TALLY-ADJUST	ON/OFF	Tally light level (TALLY_LOW) adjustment ON/OFF Reserved by the system
RESERVE 0-6	ON/OFF (DEFAULT)	Reserved by the system
RESERVE 0-5	ON/OFF (DEFAULT)	Reserved by the system
RESERVE 0-4	ON/OFF (DEFAULT)	Reserved by the system
RESERVE 0-3	ON/OFF (DEFAULT)	Reserved by the system
CAM[2:1]=	—	
S.P.G,H/I	S/P/G/“H/I”	Camera manufacturer selection (S, P, G, or H/I)
↵RETURN	▽NEXT	

To return to the “MENU1” screen, press the [SELECT] key. To go to the next screen (SW3150), press the [SET] key.



SW3150

SW3150	2/2	
> RESERVE 1-8	—	Reserved by the system
Z/F-CUSTOM	ON/OFF	Focus/zoom customization function ON/OFF
RESERVE 1-6	—	Reserved by the system
IRIS-CLOSE	ON/OFF	Iris forced close function
IRIS-COMP	ON/OFF	Iris compensation function ON/OFF
IRIS-GAINUP	ON/OFF	Auto iris increase gain function (ON=1/8, OFF=1/16)
BCT	ON/OFF	Breathing Compensation Technology (BCT) ON/OFF
CAMERA-SER	ON/OFF	Camera serial communication ON/OFF
↵RETURN	△BACK	

To return to the “MENU1” screen, press the [SELECT] key. To return to the previous screen (SW3151), press the [SET] key.

To set the backlight level and/or tally light level of the LCD panel, use the “OTHERS” menu of the MENU2 screen. The camera manufacturer must be selected using the actual dip switch. The setting of the camera manufacturer cannot be changed using the LCD panel menus.

The setting for compensating the focusing and zooming operations is performed using the “ZOOM” or “FOCUS” menu of the MENU1 screen.

The iris setting is changed using the “IRIS” menu of the MENU1 screen.

The camera serial communication ON/OFF setting is performed using the actual dip switch. This setting cannot be changed using the LCD panel menus.

## 4.2 FIRMWARE OPERATION MENU

**Note :** This menu item is used for maintenance. For details, contact the sales agent from which you purchased the product.

MENU1 screen (MENU1)

MENU	1/2
DIPSW	
▶ FW-VER	
USB	
ZOOM	
FOCUS	
IRIS	
EXTENDER	
▽	
↶	
▽ SELECT	✓ SET

Dip switch setting status check menu  
 Firmware version check menu  
 USB mode setting operation menu  
 Zooming operation setting menu  
 Focusing operation setting menu  
 Iris operation setting menu  
 Extender operation setting menu  
 Goes to the next screen (MENU2)  
 Returns to the TOP (STS) screen



FW-VER screen (submenu)

FW-VER	
SFUP-VER	xxxxxxx
▶ S-UPDATE	—
MFUP-VER	xxxxxxx
M-UPDATE	—
XFUP-VER	xxxxxxx
X-UPDATE	—
↶	
▽ SELECT	✓ SET

Firmware version 1  
 Maintenance menu (Operation is not allowed.)  
 Firmware version 2  
 Maintenance menu (Operation is not allowed.)  
 Firmware version 3  
 Maintenance menu (Operation is not allowed.)  
 Returns to the parent screen (MENU1).

### MEMO

## 4.3 USB MODE SETTING MENU

The USB driver of this product is provided with both DEVICE mode and HOST mode functions. DEVICE mode enables controlling this product from a computer, and HOST mode enables this product to read and write the setting data to and from a USB memory.

Normally, this product starts up in DEVICE mode.

To save and read the setting data, the USB driver of this product must be activated in HOST mode.

To set the USB driver of this product to HOST mode, use the following procedure to set the system:

MENU1 screen (MENU1)

MENU	1/2
DIPSW	
FW-VER	
> USB	
ZOOM	
FOCUS	
IRIS	
EXTENDER	
▽	
↵	
▽SELECT	✓ SET

Dip switch setting status check menu

Firmware version check menu

USB mode setting operation menu

Zooming operation setting menu

Focusing operation setting menu

Iris operation setting menu

Extender operation setting menu

Goes to the next screen (MENU2)

Returns to the TOP (STS) screen



USB mode setting screen

USB	1/1
> HOST/DEVICE	HST/DEV
↵	
▽SELECT	✓ SET

Displays the current mode of the USB driver.

Returns to the parent screen (MENU1).



USB mode setting screen

USB	1/1
> HOST/DEVICE	1/1
↵	> HOST
	DEVICE
	↵
▽SELECT	✓ SET

Set the USB of this product to HOST mode.

Set the USB of this product to DEVICE mode.

Return to the parent screen (USB mode display screen).

- ① Move the cursor to "HOST."
- ② Press the [SET] key to save the new setting in the memory.
- ③ The setting is stored in memory and the higher-level (USB setting) screen reappears.
- ④ Set a USB memory in the USB port.
- ⑤ Restart the system.
- ⑥ Confirm that the "STATUS" indication on the higher-level screen has changed to "HOST."

**Note 1 :** To cancel the setting operation, move the cursor to the [↵] symbol and then press the [SET] key. The higher-level screen reappears.

**Note 2 :** The USB HOST mode is activated only when the system is restarted after setting this mode. When the system is restarted after performing operations in HOST mode, the USB driver of this product starts up in DEVICE mode.

**Note 3 :** Do not insert or remove the USB memory in HOST mode.

**Note 4 :** DEVICE mode is used for maintenance. For more information, contact our agency.

## 4.4 ZOOMING OPERATION SETTING MENU

The zooming operation setting menu consists of two screens, the ZOOM1 and ZOOM2 screens. The ZOOM1 screen is used for setting the operation characteristic curves and the ZOOM2 screen is used for setting the response speed and compensation function.

MENU1 screen (MENU1)

MENU	1/2
DIPSW	
FW-VER	
USB	
▶ ZOOM	
FOCUS	
IRIS	
EXTENDER	
▽	
↵	
▽SELECT	✓ SET

Dip switch setting status check menu  
 Firmware version check menu  
 USB mode setting operation menu  
 Zooming operation setting menu  
 Focusing operation setting menu  
 Iris operation setting menu  
 Extender operation setting menu  
 Goes to the next screen (MENU2)  
 Returns to the TOP (STS) screen

Press the [SET] key.



Zooming operation setting screen

ZOOM1	(1/2)
▶ CURVE-A	xxxxxxx
A-ADJ	xx
CURVE-B	xxxxxxx
B-ADJ	xx
CURVE-N	xxxxxxx
N-ADJ	xx
▽	
↵	
▽SELECT	✓ SET

Displays the status of zoom compensation CURVE-A.  
 Displays the setting value of zoom compensation CURVE-A.  
 Displays the status of zoom compensation CURVE-B.  
 Displays the setting value of zoom compensation CURVE-B.  
 Displays the status of zoom compensation CURVE-N.  
 Displays the setting value of zoom compensation CURVE-N.  
 Goes to the next screen (ZOOM2).

Returns to the parent screen (MENU1).



ZOOM2	(2/2)
▶ V-STOP	xx
BCT	ON/OFF
△	
↵	
▽SELECT	✓ SET

Displays the stopping speed of zooming operation (0 to 99).  
 Current status of the Breathing Compensation Technology (BCT) (ON or OFF)

Goes to the previous screen (ZOOM1).

Returns to the parent screen (MENU1).

- To cancel the setting operation, move the cursor to the [↵] symbol and then press the [SET] key. The higher-level screen reappears.

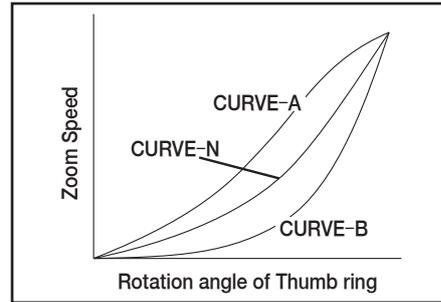
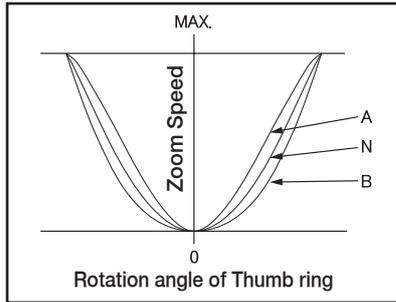
## 4.4.1 Selecting the Zooming Operation Compensation Method

The ZOOM CURVE-A, CURVE-B, and CURVE-N settings are used for customizing the A, B, and N curves selected by the curve switches of the zoom rate demand control unit.

ZOOM CURVE-A is used for setting the high starting motion sensitivity for the thumb ring operation and ZOOM CURVE-B is used for setting the low starting motion sensitivity for the thumb ring operation. On the other hand, ZOOM CURVE-N sets the midpoint setting between ZOOM CURVE-A and ZOOM CURVE-B.

**Note 1 :** When either the customized dip switch or dip switch setting of the LCD panel menu has been set to “OFF,” the default values are forcibly applied to the CURVE-A, CURVE-B, and CURVE-N settings.

**Note 2 :** The setting and adjustment methods of CURVE-B and CURVE-N are the same as those of CURVE-A. (The procedure below is used for CURVE-A, as an example.)



Zooming operation setting screen

ZOOM		1/1
▶ CURVE-A		xxxxxxx
A-ADJ		xx
CURVE-B		xxxxxxx
B-ADJ		xx
CURVE-N		xxxxxxx
N-ADJ		xx
▽		
↵		
▽SELECT		✓ SET

Displays the status of zoom compensation CURVE-A.  
 Displays the setting value of zoom compensation CURVE-A.  
 Displays the status of zoom compensation CURVE-B.  
 Displays the setting value of zoom compensation CURVE-B.  
 Displays the status of zoom compensation CURVE-N.  
 Displays the setting value of zoom compensation CURVE-N.  
 Goes to the next screen (ZOOM2).

Returns to the parent screen (MENU1).

Select the zoom curve compensation mode from three types of settings, “DEFAULT” (default value), “ADJUST” (user-defined adjustment value), and “CUSTOM” (value using the custom table).



Zooming operation compensation curve setting screen

ZOOM		1/1
▶ CURVE-A		1/1
A-ADJ	▶	DEFAULT
CURVE-B		ADJUST
B-ADJ		CUSTOM
CURVE-N	↵	
N-ADJ		
▽		
↵		
▽SELECT		✓ SET

Sets ZOOM CURVE-A to a default value.  
 (Same as when the customized dip switch setting of the LCD panel menu has been set to “OFF.”)  
 Sets ZOOM CURVE-A to a user-defined adjustment value.  
 Sets ZOOM CURVE-A to a value using the custom table.  
 Returns to the higher-level screen (ZOOM operation screen).

- ① Move the cursor to the mode to be set and press the [SET] key.
- ② When the setting is completed, the parent screen (ZOOM operation screen) automatically reappears.

**Note 1 :** There is no need to move the cursor to the [↵] symbol and select “✓SET.”

**Note 2 :** The new setting is applied for the operation of the product right away.

- ③ To cancel the setting operation, move the cursor to the [↵] symbol and then press the [SET] key. The higher-level screen reappears.

## 4.4.2 Setting the Zooming Operation Compensation Curve Adjustment Value

This function sets the adjustment values for “A-ADJ,” “B-ADJ,” and “N-ADJ” when “ADJUST” has been selected as zoom curve compensation mode.

**Note 1 :** For the setting operations of CURVE-B and CURVE-N, read “CURVE-B” or “CURVE-N” in place of “CURVE-A” and read “B-ADJ” or “N-ADJ” in place of “A-ADJ,” in the procedure below.

**Note 2 :** When “CUSTOM” is selected as a zoom curve compensation mode, this function refers to the internal write-enabled table. For the details about the “CUSTOM” operation, contact the Fujifilm customer support center.

The setting value for “A-ADJ” becomes valid when the “CURVE-A” compensation mode is “ADJUST” and the effect of the compensation curve will change in accordance with the value set between “0” and “99.”

Zooming operation setting screen

ZOOM		1/1
CURVE-A		xxxxxxx
▶ A-ADJ		xx
CURVE-B		xxxxxxx
B-ADJ		xx
CURVE-N		xxxxxxx
N-ADJ		xx
▽		
↵		
▽SELECT		✓ SET

Displays the status of zoom compensation CURVE-A.

Displays the setting value of zoom compensation CURVE-A.

Displays the status of zoom compensation CURVE-B.

Displays the setting value of zoom compensation CURVE-B.

Displays the status of zoom compensation CURVE-N.

Displays the setting value of zoom compensation CURVE-N.

Goes to the next screen (ZOOM2).

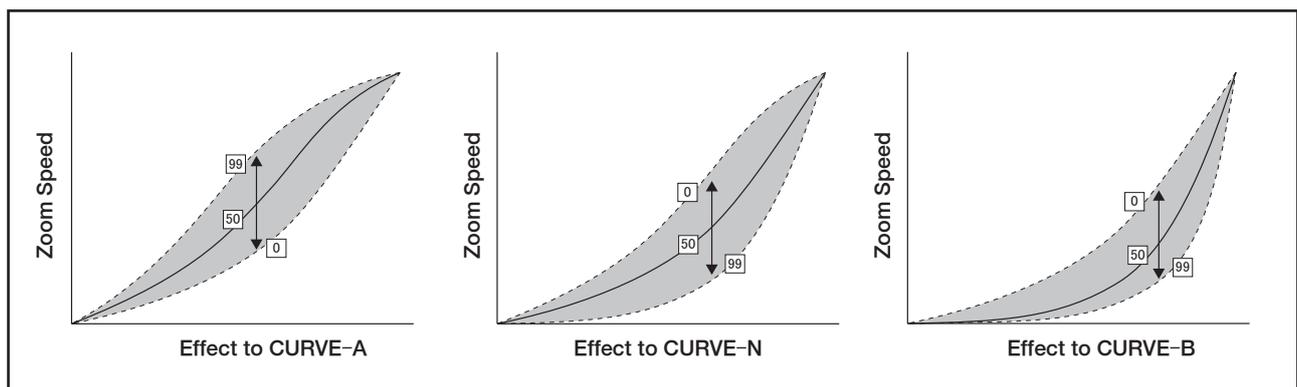
Returns to the parent screen (MENU1).

Select “A-ADJ” and press the [SET] key.



ZOOM				1/1
CURVE-A	SET-NUM			1/1
▶ A-ADJ	(A)	+	(B)	+
CURVE-B				
B-ADJ		X		Y
CURVE-N				
N-ADJ	(C)	-	(D)	-
▽	(E)	UPDATE		
	(F)	↵		
↵				
▽SELECT				✓ SET

- ① Select “A-ADJ” on the ZOOM operation screen and press the [SET] key to display the SET-NUM screen.
- ② Move the cursor to the item whose value is to be changed. (On the SET-NUM screen, the cursor moves in a repeating loop of the following sequence: (A) higher order digit “+” → (B) lower order digit “+” → (C) higher order digit “-” → (D) lower order digit “-” → (E) “UPDATE” → (F) [△] → (A) higher order digit “+”)
- ③ Every time the [SET] key is pressed, the numerical value of the digit at the cursor location will increase or decrease.
- ④ When both higher order and lower order digits indicate the desired numerical values, move the cursor to “UPDATE” and press the [SET] key to save the new values in the memory.
- ⑤ After the value is stored in the memory, move the cursor to the [↵] symbol and press the [SET] key. The parent screen (ZOOM operation screen) reappears.



### 4.4.3 Setting the Zooming Stopping Speed

The adjustment of the “V-STOP” menu is performed using the ZOOM2 operation screen.

The “V-STOP” menu is used for setting the stopping speed of zooming operation when the zooming operation is stopped from the operation status.

When the setting value of this function is set to low, the zoom servo characteristics become slower and when the setting value is set to a higher value, the servo responds faster.

When the response is too fast, the operation becomes unstable and when the response is too slow, ease of operation declines. Therefore, set the stopping speed to a desired value within the range where ease of operation does not decline.

Zooming operation setting screen

ZOOM	
> V-STOP	xx
BCT	ON/OFF
△	
↵	
▽SELECT	✓ SET

Displays the stopping speed of zooming operation.(0~99)  
Current status of the Breathing Compensation Technology (BCT)  
Goes to the previous screen (ZOOM1).

Returns to the parent screen (MENU1).

Select “V-STOP” and press the [SET] key.



V-STOP value setting screen

★ The value setting (SET-NUM) screen is displayed by superimposing it on the ZOOM operation screen.

ZOOM		1/1	
> V-STOP	SET-NUM	1/1	
BCT	(A) +	(B)	+
△		X	Y
	(C) -	(D)	-
	(E) UPDATE		
	(F) ↵		
↵			
▽SELECT			✓ SET

- ① Select “V-STOP” on the ZOOM operation screen and press the [SET] key to display the “V-STOP SET-NUM” screen.
- ② Move the cursor to the location to be changed. (On the SET-NUM screen, the cursor moves in a repeating loop of the following sequence: (A) higher order digit “+” → (B) lower order digit “+” → (C) higher order digit “-” → (D) lower order digit “-” → (E) “UPDATE” → (F) [△] → (A) higher order digit “+”)
- ③ Every time the [SET] key is pressed, the numerical value of the digit at the cursor location will increase or decrease.
- ④ When both higher order and lower order digits indicate the desired numerical values, move the cursor to “UPDATE” and press the [SET] key to save the new values in the memory.
- ⑤ After the value is stored in the memory, move the cursor to the [↵] symbol and press the [SET] key. The higher-level screen (ZOOM operation screen) reappears.
- ⑥ (6) Confirm that the new value set for “V-STOP” on the ZOOM operation screen is the same as that of the selected custom table value.

**Note :** When either the customized dip switch or dip switch setting of the LCD panel menu has been set to “OFF,” the default values are forcibly applied to the V-STOP setting.

#### 4.4.4 Breathing Compensation Technology (BCT) function setting

The Breathing Compensation Technology operates the focusing and zooming operations in sync. In order to correct the phenomenon that causes the field angle to change due to the focusing operation.

When “BCT” of this function is set to “ON,” the field angle compensation function is enabled, and when “BCT” is set to “OFF,” the compensation function is canceled.

**Note** : Remember that the Breathing Compensation Technology (BCT) is set to “OFF” regardless of the setting of this function when the BCT switch of the actual dip switch (SW3150) is set to “OFF.”

Zooming operation setting screen

ZOOM2		2/2
V-STOP		xx
> BCT		ON/OFF
Δ		
↵		
▽SELECT		✓ SET

Displays the stopping speed of zooming operation.(0~99)  
Current status of the Breathing Compensation Technology (BCT)  
Goes to the previous screen (ZOOM1).

Returns to the parent screen (MENU1).

Select “BCT” and press the [SET] key.



BCT setting screen

★ The BCT setting screen is displayed by superimposing it on the ZOOM2 operation screen.

ZOOM2		2/2
> V-STOP		ON/OFF
BCT	>	OFF
Δ		ON
		↵
↵		
▽SELECT		✓ SET

Sets BCT to “OFF.”  
Sets BCT to “ON.”  
Returns to the parent screen (ZOOM2).

- ① Select “BCT” on the ZOOM2 operation screen and press the [SET] key. The BCT setting screen appears.
- ② Move the cursor to the “ON” or “OFF” position.
- ③ Press the [SET] key to save the new setting in the memory.
- ④ After the value is stored in the memory, move the cursor to the [↵] symbol and press the [SET] key. The parent screen (ZOOM2 operation screen) reappears
- ⑤ Confirm that the new value set for “BCT” on the ZOOM2 operation screen is the same as the set value.

MEMO

## 4.5 FOCUSING OPERATION SETTING MENU (FOCUSING OPERATION CHARACTERISTIC SETTING)

MENU1 screen (MENU1)

MENU	1/2
DIPSW	
FW-VER	
USB	
ZOOM	
➤ FOCUS	
IRIS	
EXTENDER	
▽	
↵	
▽SELECT	✓ SET

Dip switch setting status check menu  
Firmware version check menu  
USB mode setting operation menu  
Zooming operation setting menu  
Focusing operation setting menu  
Iris operation setting menu  
Extender operation setting menu  
Goes to the next screen (MENU2)  
Returns to the TOP (STS) screen

### 4.5.1 Selecting the Focusing Operation Compensation Method

FOCUS CURVE-N is used for compensation of the focus position demand unit at the MOD (“Near”) position, and FOCUS CURVE-F is used for compensation of the focus position demand unit at the infinity (“Far”) position.

**Note 1 :** When either the customized dip switch or dip switch setting of the LCD panel menu has been set to “OFF,” the default values are forcibly applied to the CURVE-A, CURVE-B, and CURVE-N settings.

**Note 2 :** The setting and adjustment methods of FOCUS CURVE-F are the same as those of CURVE-N. (The procedure below is used for FOCUS CURVE-N as an example.)

Focusing operation setting screen

FOCUS	1/1
➤ CURVE-N	xxxxxxx
N-ADJ	xx
CURVE-F	xxxxxxx
F-ADJ	xx
↵	
▽SELECT	✓ SET

Displays the status of focus compensation CURVE-N.  
Displays the adjustment value of focus compensation CURVE-N.  
Displays the status of focus compensation CURVE-F.  
Displays the adjustment value of focus compensation CURVE-F.  
Returns to the previous screen (MENU1).



Focus compensation mode selection screen

★ The mode selection screen is displayed by superimposing it on the FOCUS operation screen.

FOCUS	1/1
➤ CURVE-N	1/1
N-ADJ	➤ DEFAULT
CURVE-F	ADJUST
F-ADJ	CUSTOM
↵	↵
▽SELECT	✓ SET

Sets ZOOM CURVE-N to a default value.  
(Same as when the customized dip switch setting of the LCD panel menu has been set to “OFF.”)  
Sets ZOOM CURVE-N to a user-defined adjustment value.  
Sets ZOOM CURVE-N to a value using the custom table.  
Returns to the higher-level screen (FOCUS operation screen).

- ① Move the cursor to the mode to be set and press the [SET] key.
- ② When the setting is completed, the parent screen (FOCUS operation screen) automatically reappears.

**Note 3 :** The new setting is applied for the operation of the product right away.

- ③ To cancel the setting operation, move the cursor to the [↵] symbol and then press the [SET] key. The higher-level screen reappears.

## 4.5.2 Setting the Focus Compensation Curve or Focus Compensation Table

This function sets the characteristic values for “N-ADJ” or “F-ADJ” when “ADJUST” has been selected as the focus curve compensation mode.

**Note :** For the setting operations of CURVE-F, read “CURVE-F” in place of “CURVE-N” and read “F-ADJ” in place of “N-ADJ” in the procedure below.

The setting value for “N-ADJ” becomes valid when the “CURVE-N” compensation mode is “ADJUST” and the effect of the compensation curve will change in accordance with the value set between “0” and “99.”

Focusing operation compensation curve setting screen

FOCUS		1/1
CURVE-N	xxxxxxx	
➤ N-ADJ	xx	
CURVE-F	xxxxxxx	
F-ADJ	xx	
↶		
▽SELECT		✓ SET

Displays the status of focus compensation CURVE-N.  
 Displays the adjustment value of focus compensation CURVE-N.  
 Displays the status of focus compensation CURVE-F.  
 Displays the adjustment value of focus compensation CURVE-F.  
 Returns to the previous screen (MENU1).

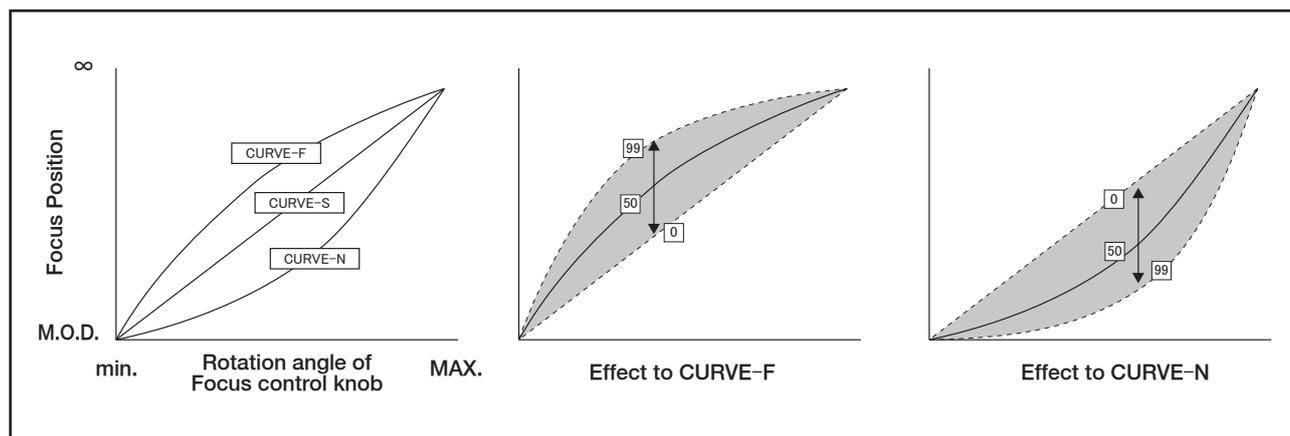


Value setting screen of FOCUS CURVE-N

FOCUS		1/1	
CURVE-N	SET-NUM		1/1
➤ N-ADJ	(A) +	(B)	+
CURVE-F			
F-ADJ	X		Y
↶			
	(C) -	(D)	-
	(E) UPDATE		
	(F) ↶		
▽SELECT			✓ SET

- ① Select “N-ADJ” on the ZOOM operation screen and press the [SET] key to open the “SET-NUM” screen.
- ② Move the cursor to the location to be changed. (On the SET-NUM screen, the cursor moves in a repeating loop of the following sequence: (A) higher order digit “+” → (B) lower order digit “+” → (C) higher order digit “-” → (D) lower order digit “-” → (E) “UPDATE” → (F) [△] → (A) higher order digit “+”)
- ③ Every time the [SET] key is pressed, the numerical value of the digit at the cursor location will increase or decrease.
- ④ When both higher order and lower order digits indicate the desired numerical values, move the cursor to “UPDATE” and press the [SET] key to save the new values in the memory.
- ⑤ After the value is stored in the memory, move the cursor to the [△] symbol and press the [SET] key. The higher-level screen (FOCUS operation screen) reappears.

**Note :** The setting value for “A-ADJ” of this function becomes valid when the “CURVE-N” compensation mode is “ADJUST.”



## 4.6 IRIS OPERATION SETTING MENU

MENU1 screen (MENU1)

MENU		1/2
DIPSW		
FW-VER		
USB		
ZOOM		
FOCUS		
> IRIS		
EXTENDER		
▽		
↵		
▽SELECT		✓ SET

Dip switch setting status check menu  
 Firmware version check menu  
 USB mode setting operation menu  
 Zooming operation setting menu  
 Focusing operation setting menu  
 Iris operation setting menu  
 Extender operation setting menu  
 Goes to the next screen (MENU2)  
 Returns to the TOP (STS) screen

Press the [SET] key.



Iris operation setting screen

IRIS		1/1
> GAINUP		1/8 or 1/16
IRIS-COMP		ON/OFF
FORCED-CLOSE		ON/OFF
↵		
▽SELECT		✓ SET

Sets the gain of the iris in auto iris mode. (ON=1/8, OFF=1/16)  
 Sets the iris compensation function (ON/OFF) when using the built-in extender.  
 Sets the iris forced close function (ON/OFF).  
 Returns to the parent screen (MENU1).

### 4.6.1 Setting the Feedback Gain of the Iris in Auto Iris Mode

Auto iris feedback gain increase setting screen

IRIS		1/1
> GAINUP		1/1
IRIS-COMP	>	1/8
FORCED-		1/16
↵	↵	
▽SELECT		✓ SET

Sets the Auto iris feedback gain to "1/8."  
 Sets the Auto iris feedback gain to "1/16."  
 Returns to the parent screen (IRIS).

- ① Move the cursor to the mode to be set and press the [SET] key.
- ② When the setting is completed, the parent screen (IRIS operation screen) automatically reappears.

**Note 1 :** When the IRIS-GAINUP switch of dip switch (SW3150) is set to "OFF" ("1/16"), this function cannot be set to "ON" ("1/8") using the LCD panel menus.

**Note 2 :** The new setting is applied for the operation of the product right away.

## 4.6.2 Setting the Iris Compensation Function (ON/OFF)

The iris compensation function is used for compensating the phenomenon where the transmitted light intensity drops near the tele end and the image becomes darker when using the built-in extender.

MENU1 screen (MENU1)

MENU		1/2
DIPSW		
FW-VER		
USB		
ZOOM		
FOCUS		
▶ IRIS		
EXTENDER		
▽		
↵		
▽SELECT		✓ SET

Dip switch setting status check menu  
 Firmware version check menu  
 USB mode setting operation menu  
 Zooming operation setting menu  
 Focusing operation setting menu  
 Iris operation setting menu  
 Extender operation setting menu  
 Goes to the next screen (MENU2)  
 Returns to the TOP (STS) screen

Press the [SET] key.



Iris operation setting screen

IRIS		
GAINUP		1/8 or 1/16
▶ IRIS-COMP		ON/OFF
FORCED-CLOSE		ON/OFF
↵		
▽SELECT		✓ SET

Sets the gain of the iris in auto iris mode. (ON=1/8, OFF=1/16)  
 Sets the iris compensation function (ON/OFF) when using the built-in extender.  
 Sets the iris forced close function (ON/OFF).  
 Returns to the parent screen (MENU1).



Iris forced close function (ON/OFF) setting screen

IRIS			1/1
GAINUP			1/1
▶ IRIS-COMP	▶	ON	
FORCED-		OFF	
↵		↵	
▽SELECT			✓ SET

Enables the iris compensation function.  
 Disables the iris compensation function.  
 Returns to the parent screen (IRIS).

- ① Move the cursor to the mode to be set and press the [SET] key.
- ② When the setting is completed, the parent screen (IRIS operation screen) automatically reappears.

**Note 1 :** When the IRIS-COMP switch of dip switch (SW3150) is set to “OFF,” this function cannot be set to “ON” using the LCD panel menus.

**Note 2 :** The new setting is applied for the operation of the product right away.

### 4.6.3 Setting the Iris Forced Close Function (ON/OFF)

MENU1 screen (MENU1)

MENU		1/2
DIPSW		
FW-VER		
USB		
ZOOM		
FOCUS		
> IRIS		
EXTENDER		
▽		
↶		
▽SELECT		✓ SET

Dip switch setting status check menu  
 Firmware version check menu  
 USB mode setting operation menu  
 Zooming operation setting menu  
 Focusing operation setting menu  
 Iris operation setting menu  
 Extender operation setting menu  
 Goes to the next screen (MENU2)  
 Returns to the TOP (STS) screen

Press the [SET] key.



Iris operation setting screen

IRIS		
GAINUP		1/8 or 1/16
IRIS-COMP		ON/OFF
> FORCED-CLOSE		ON/OFF
↶		
▽SELECT		✓ SET

Sets the gain of the iris in auto iris mode.(ON=1/8,OFF=1/16)  
 Sets the iris compensation function (ON/OFF) when using the built-in extender.  
 Sets the iris forced close function (ON/OFF).  
 Returns to the parent screen (MENU1).



Iris forced close function (ON/OFF) setting screen

IRIS			1/1
GAINDOWN			1/1
> FORCED-	>	ON	
↶		OFF	
		↶	
▽SELECT			✓ SET

Enables the function to close the iris forcibly while the iris control signal for closing the iris is sent.  
 Controls the iris in the state where compensation for iris control signal input is enabled.  
 Returns to the parent screen (IRIS).

- ① Move the cursor to the mode to be set and press the [SET] key.
- ② When the setting is completed, the parent screen (IRIS operation screen) automatically reappears.

**Note 1 :** If the IRIS-CLOSE switch of dip switch (SW3150) is set to “OFF,” this function cannot be set to “ON” using the LCD panel menus.

**Note 2 :** The new setting is applied for the operation of the product right away.

## 4.7 EXTENDER OPERATION SETTING MENU

MENU1 screen (MENU1)

MENU	1/2
DIPSW	
FW-VER	
USB	
ZOOM	
FOCUS	
IRIS	
▶ EXTENDER	
▽	
↵	
▽SELECT	✓ SET

Dip switch setting status check menu  
 Firmware version check menu  
 USB mode setting operation menu  
 Zooming operation setting menu  
 Focusing operation setting menu  
 Iris operation setting menu  
 Extender operation setting menu  
 Goes to the next screen (MENU2)  
 Returns to the TOP (STS) screen

Press the [SET] key.



Extender operation setting screen

EXTENDER	1/1
▶ ↵	
▽SELECT	✓ SET

Returns to the previous screen (MENU1).

**Note :** The extender is operated using an external controller for this product. Note that the extender operation using the LCD panel is disabled.

MEMO

## 5 OPERATION ON MENU2 SCREEN

Move the cursor to the [▽] symbol on the MENU1 operation screen and press the [SET] key. The MENU2 screen appears.

MENU1 screen (MENU1)

MENU	1/2
DIPSW	
FW-VER	
USB	
ZOOM	
FOCUS	
IRIS	
EXTENDER	
▶ ▽	
◀	
▽SELECT	✓ SET

Dip switch setting status check menu  
 Firmware version check menu  
 USB mode setting operation menu  
 Zooming operation setting menu  
 Focusing operation setting menu  
 Iris operation setting menu  
 Extender operation setting menu  
 Goes to the next screen (MENU2)  
 Returns to the TOP (STS) screen



MENU2 screen (MENU2)

MENU	2/2
▶ BF	
STBI	
SETTING	
OTHERS	
△	
◀	
▽SELECT	✓ SET

Flange focal length adjustment  
 Stabilizer control switch function setting  
 Parameter operation menu (Save/read)  
 Other functions  
 Returns to the previous screen (MENU1).  
 Returns to the TOP (STS) screen.

### MEMO

## 5.1 FLANGE FOCAL LENGTH (BACK FOCUS) OPERATION SETTING MENU

The flange focal length adjustment and macro operation are not performed for this product using the LCD panel menus.

For the flange focal length adjustment and macro operation, refer to the operation manual of the lens.

MENU2 screen (MENU2)

MENU	2/2
> BF	
STBI	
SETTING	
OTHERS	
△	
↶	
▽SELECT	✓ SET

Flange focal length adjustment  
 Stabilizer control switch function setting  
 Parameter operation menu (Save/read)  
 Other functions  
 Returns to the previous screen (MENU1).  
 Returns to the TOP (STS) screen.



Back focus operation screen

BF	
> ↶	
▽SELECT	✓ SET

Returns to the previous screen (MENU2).

MEMO

## 5.2 STABILIZATION SETTINGS

### 5.2.1 STABILIZER SWITCH FUNCTION SETTING MENU

The STBI screen is used for setting the stabilizer ON/OFF switch function of the stabilizer controller to be connected to the lens. (This function is not available for models without the built-in optical stabilizer.)

The stabilizer ON/OFF switch of the stabilizer controller can be of two types depending on the specifications of the controller. One functions as a momentary (“MOMENT”) switch and the other functions as an alternate (“ALT”) switch.

The momentary switch turns the stabilizer function ON as long as the switch is being pressed. On the other hand, the alternate switch alternately turns the stabilizer function “ON” and “OFF” every time the switch is pressed.

Be sure to perform the setting in accordance with the specifications of the controller connected to the lens.

MENU2 screen (MENU2)

MENU		2/2
BF		
▶ STBI		
SETTING		
OTHERS		
△		
↶		
▽SELECT		✓ SET

Flange focal length adjustment  
 Stabilizer control switch function setting  
 Parameter operation menu (Save/read)  
 Other functions  
 Returns to the previous screen (MENU1).  
 Returns to the TOP (STS) screen.



Setting value operation screen

STBI		1/1
▶ PUSH SW		MOMENT/ALT
STD SET		DEF/CUSTOM
HIGH SET		DEF/CUSTOM
↶		
▽SELECT		✓ SET

Sets the stabilization ON/OFF switch. Displays the function.  
 Sets the stabilizer characteristics in STD. mode.  
 Displays the setting status (default/user setting).  
 Sets the stabilizer characteristics in HIGH mode.  
 Displays the setting status (default/user setting).  
 Returns to the higher-level screen (MENU2).



MOMENT/ALT selection screen

STBI		1/1
▶ PUSH SW		1/1
STD SET	▶	MOMENT
HIGH SET		ALT
↶		↶
▽SELECT		✓ SET

The stabilizer ON/OFF switch operates as a momentary type switch.  
 The stabilizer ON/OFF switch operates as an alternate type switch.  
 Returns to higher-level screen.

## 5.2.2 HIGH STANDARD STABILIZER CHARACTERISTICS SETTINGS

The stabilizer characteristics can be set by changing the positions of the HIGH and STD stabilization selector switches. Selecting DEF results in the default value. Selecting CUSTOM allows selection of the stabilizer characteristics setting.

**INTENSIV** : The stabilization strength can be set in 8 stages. A higher value results in more suppression of vibration but can increase jerkiness when panning or tilting.

**LOW AMPL FN** : When set to “ON”, stabilization continues when the image is static, but there may be slight movement of the image. When set to OFF, stabilization is halted when the camera is static.

MENU2 screen (MENU2)

MENU	2/2
BF	
▶ STBI	
SETTING	
OTHERS	
△	
↶	
▽SELECT	✓ SET

Back focus operation setting menu  
 Stabilizer control switch function setting  
 Parameter operation menu (Save/read)  
 Other functions  
 Returns to the previous screen (MENU1).  
 Returns to the TOP (STS) screen.



Setting value operation screen

STBI	1/1
PUSH SW	MOMENT/ALT
▶ STD SET	DEF/CUSTOM
HIGH SET	DEF/CUSTOM
↶	
▽SELECT	✓ SET

Sets the stabilization ON/OFF switch. Displays the function.  
 Sets the stabilizer characteristics in STD. mode. Displays the setting status (default/user setting).  
 Sets the stabilizer characteristics in HIGH mode. Displays the setting status (default/user setting).  
 Returns to the higher-level screen (MENU2).



DEFAULT/CUSTOM selection screen

STBI	1/1
DEFAULT	
▶ CUSTOM	
↶	
▽SELECT	✓ SET

Selects DEFAULT.  
 Selects CUSTOM.  
 Returns to higher-level screen.



Stabilizer characteristics item selection screen

STBI		1/1
> INTENSIV		1~8
LOW AMPL FN		ON/OFF
↶		
▽SELECT		✓SET

Selects INTENSIV. Displays the current setting value.  
 Selects LOW AMPL FN. Displays the current setting value.  
 Returns to higher-level screen.

⇓                      ⇑

INTENSIV setting screen

STBI			1/1
> INTENSIV			1/1
LOW AMPL FN	>	1	
↶		2	6
		3	7
		4	8
		5	↶
▽SELECT			✓SET

Selects a value from 1 to 8.

Returns to the higher-level screen  
 (Stabilizer characteristics item selection screen).

⇓                      ⇑

Stabilizer characteristics item selection screen

STBI		1/1
INTENSIV		1~8
> LOW AMPL FN		ON/OFF
↶		
▽SELECT		✓SET

Selects INTENSIV. Displays the current setting value.  
 Selects LOW AMPL FN. Displays the current setting value.  
 Returns to higher-level screen.

⇓                      ⇑

LOW AMPL FN setting screen

STBI			1/1
INTENSIV			1/1
> LOW AMPL FN		OFF	
↶	>	ON	
		↶	
▽SELECT			✓SET

Selects OFF.  
 Selects ON.  
 Returns to the higher-level screen  
 (Stabilizer characteristics item selection screen).

\* Same as HIGH

### 5.3 SETTING/ADJUSTMENT VALUES SAVE AND READ OPERATION MENU

The SETTING screen is used for saving the values set or adjusted using the LCD panel menus to a USB memory and also for reading and restoring the setting values stored in the USB memory.

**Note 1 :** To access the USB memory, the USB driver mode must be set to “HOST” beforehand.

**Note 2 :** Do not insert or remove the USB memory in HOST mode.

MENU screen (MENU2)

MENU	2/2
BF	
STBI	
▶ SETTING	
OTHERS	
△	
↶	
▽ SELECT	✓ SET

Flange focal length adjustment  
 Stabilizer control switch function setting  
 Parameter operation menu (Save/read)  
 Other functions  
 Returns to the previous screen (MENU1).  
 Returns to the TOP (STS) screen.

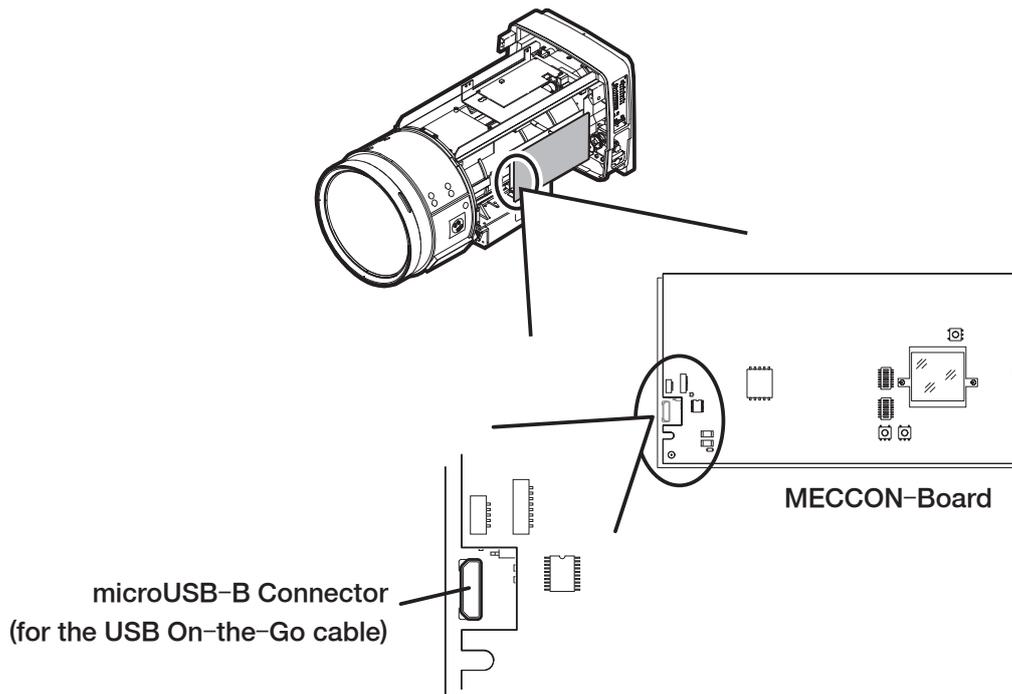
Press the [SET] key.



SETTING screen

SETTING	1/1
▶ STORE-SETTING	READY
READ-SETTING	READY
FACTORY-DEFAULT	READY
↶	
▽ SELECT	✓ SET

Saves the set or adjusted value in an external USB memory.  
 Reads and restores the setting from an external USB memory after it was saved.  
 Restores all settings to default.  
 Returns to the higher-level screen (MENU2).





## 5.3.2 Reading the Setting and Adjustment Values

SETTING screen

SETTING	
STORE-SETTING	
▶ READ-SETTING	
FACTORY-DEFAULT	
↵	
▽SELECT	✓ SET

Saves the set or adjusted value in an external USB memory.  
 Reads the setting value from an external USB memory after it was saved.  
 Restores all settings to default.  
 Returns to the higher-level screen (MENU2).

Press the [SET] key.



Setting value read/restore operation (READ-SETTING) screen

SETTING	
▶ READ-SETTING	1/1
▶ START	
↵	
▽SELECT	✓ SET

Starts access to a USB memory.  
 Returns to the higher-level screen (SETTING).

The following operation statuses are displayed while the READ-SETTING function is performed:

START	The reading operation
NO-MEM	No USB memory is connected.
NO-FILE	A file is not found in the USB memory.
NO-HOST	The USB driver is not set to "HOST" mode.
PROCESSING	Accessing in progress (A saving or reading operation is in progress)

- ① Set the USB driver of this product to "HOST" mode.
- ② Insert a USB memory into the USB port of this product.
- ③ Restart the system. (Refer to page 5) This product starts in "HOST" mode.
- ④ Select "READ-SETTING" on the SETTING screen to display the read operation (READ-SETTING) screen.
- ⑤ Make sure that the status display indicates "READY," and then move the cursor to "START."
- ⑥ Press the [SET] key to start reading the value.  
 → The reading setting value operation from the USB memory will start and the status display will indicate "PROCESSING."
- ⑦ When the read operation (storing setting value in the EEPROM) is finished, the status display will indicate "READY."
- ⑧ The higher-level screen (setting value operation screen) reappears automatically.

**Note 1 :** Before starting the READ-SETTING operation, procure a USB memory (formatted to FAT32) that contains the file saved in section 5.3.1.

**Note 2 :** Be sure to store only one file that contains the settings to be restored in the USB memory. If multiple setting files are stored in the USB memory, the target settings may not be restored.  
 (When multiple setting files are stored in the USB memory, the system reads the file with the highest serial number.)  
 The setting values read from a USB memory are retrieved and applied to the system when the power of the lens is turned off and turned on again.

**Note 3 :** When the setting values are read from a USB memory, the new setting values are applied to the operation of this product when the read operation is finished.

**Note 4 :** Do not insert or remove the USB memory in HOST mode.

**Note 5 :** If a problem occurs with the operation of the USB memory, consult our agency.

### 5.3.3 Initializing the Setting Values

SETTING screen

SETTING	
STORE-SETTING	
READ-SETTING	
> FACTORY-DEFAULT	
↵	
▽SELECT	✓ SET

Saves the set or adjusted value in an external USB memory.  
 Reads the setting value from an external USB memory after it was saved.  
 Restores all settings to default.  
 Returns to the higher-level screen (MENU2).

Press the [SET] key.



Setting value initialization (FACTORY-DEFAULT) screen

SETTING		
> FACTORY-DEFAULT		1/1
	> START	
	↵	
▽SELECT		✓ SET

Starts initialization of the lens setting values.  
 Returns to the higher-level screen (SETTING).

The following operation statuses are displayed while the FACTORY-DEFAULT function is performed:

PROCESSING	Initialization in progress
------------	----------------------------

- ① Select “FACTORY-DEFAULT” on the SETTING screen to display the write operation (STORE-SETTING) screen.
- ② Move the cursor to “START.”
- ③ Press the [SET] key to start saving the value.  
 →The operation for restoring the setting values (stored in the EEPROM located inside the lens) to their default values will start, and the status display will indicate “PROCESSING.”
- ④ Returns automatically to the higher-level screen (setting value operation screen) after the EEPROM initialization process is finished.

**Note :** Immediately after the EEPROM initialization process is finished, the default settings are used for system operations.

MEMO

## 5.4 OTHER OPERATIONS MENU (DISPLAY FUNCTION SETTING)

The OTHERS screen is used for setting items that do not directly affect system operations. This product provides the “OTHERS” menu to set the backlight level and the tally light level (TALLY-LOW) of the LCD panel.

MENU1 screen (MENU1)

MENU	1/2
DIPSW	
FW-VER	
USB	
ZOOM	
FOCUS	
IRIS	
EXTENDER	
▽	
↶	
▽SELECT	✓ SET

Dip switch setting status check menu  
 Firmware version check menu  
 USB mode setting operation menu  
 Zooming operation setting menu  
 Focusing operation setting menu  
 Iris operation setting menu  
 Extender operation setting menu  
 Goes to the next screen (MENU2)  
 Returns to the TOP (STS) screen

Press the [SET] key.



MENU2 screen (MENU2)

MENU	2/2
BF	
SETTING	
▷ OTHERS	
△	
↶	
▽SELECT	✓ SET

Flange focal length adjustment  
 Stabilizer control switch function setting  
 Parameter operation menu (Save/read)  
 Other functions  
 Returns to the previous screen (MENU1).  
 Returns to the TOP (STS) screen.

Press the [SET] key.



Setting value operation screen

OTHERS	
▷ BACKLIGHT	xx
TALLY-LOW	xx
↶	
▽SELECT	✓ SET

Backlight level of the LCD panel (0~99)  
 Tally light level (TALLY-LOW) of the LCD panel (0~99)  
 Returns to the higher-level screen (MENU2).

### MEMO

## 5.4.1 Setting the Backlight Level

MENU2 screen (MENU2)

MENU	2/2
BF	
SETTING	
▶ OTHERS	
△	
↵	
▽SELECT	✓ SET

Flange focal length adjustment  
 Stabilizer control switch function setting  
 Parameter operation menu (Save/read)  
 Other functions  
 Returns to the previous screen (MENU1).  
 Returns to the TOP (STS) screen.

Press the [SET] key.



Setting value operation screen

OTHERS	
▶ BACKLIGHT	xx
TALLY_LOW	xx
↵	
▽SELECT	✓ SET

Backlight level of the LCD panel (0~99)  
 Tally light level (TALLY-LOW) of the LCD panel (0~99)  
 Returns to the higher-level screen (MENU2).



Adjusting the backlight level

★ The value setting (SET-NUM) screen is displayed by superimposing it on the ZOOM operation screen.

OTHERS					1/1
▶ BACKLIGHT	SET-NUM				
TALLY_LOW	(A)	+	(B)	+	
↵					
		X		Y	
	(C)	-	(D)	-	
	(E)	UPDATE			
	(F)	↵			
▽SELECT					✓ SET

- ① Select "BACKLIGHT" on the OTHERS screen and press the [SET] key to display the backlight level setting screen.
- ② Move the cursor to the location to be changed.  
 (On the SET-NUM screen, the cursor moves in a repeating loop of the following sequence: (A) higher order digit "+" → (B) lower order digit "+" → (C) higher order digit "-" → (D) lower order digit "-" → (E) "UPDATE" → (F) [△] → (A) higher order digit "+")
- ③ Every time the [SET] key is pressed, the numerical value of the digit at the cursor location will increase or decrease.
- ④ When both higher order and lower order digits indicate the desired numerical values, move the cursor to "UPDATE" and press the [SET] key to save the new values in the memory.
- ⑤ After the value is saved in the memory, move the cursor to the [△] symbol and press the [SET] key. The higher-level screen (OTHERS) reappears.
- ⑥ Confirm that the selected backlight level adjustment value has been applied to the "BACKLIGHT" value on the OTHERS screen.

**Note 1 :** When "0" is set as the setting value, the light will be turned off and when "99" is set, the light will be set to the highest light level.

**Note 2 :** When the "BACKLIGHT" setting of the DIP-SW menu is set to "OFF," the backlight of the LCD panel is turned off and its setting value will be displayed as "0" regardless of the newly set backlight level value.

## 5.4.2 Setting the Tally Light Level (TALLY\_LOW)

MENU2 screen (MENU2)

MENU	2/2
BF	
SETTING	
▶ OTHERS	
△	
↵	
▽SELECT	✓ SET

Flange focal length adjustment  
Stabilizer control switch function setting  
Parameter operation menu (Save/read)  
Other functions  
Returns to the previous screen (MENU1).  
Returns to the TOP (STS) screen.



Setting value operation screen

OTHERS	
BACKLIGHT	xx
▶ TALLY_LOW	xx
↵	
▽SELECT	✓ SET

Backlight level of the LCD panel (0~99)  
Tally light level (TALLY-LOW) of the LCD panel (0~99)  
Returns to the higher-level screen (MENU2).



Adjusting the tally light level (TALLY\_LOW)

★The value setting (SET-NUM) screen is displayed by superimposing it on the ZOOM operation screen.

OTHERS	1/1			
BACKLIGHT	SET-NUM			
▶ TALLY_LOW	(A)	+	(B)	+
↵		X		Y
	(C)	-	(D)	-
	(E)	UPDATE		
	(F)	↵		
▽SELECT	✓ SET			

- ① Select "TALLY\_LOW" on the OTHERS screen and press the [SET] key to display the tally light level setting screen.
- ② Move the cursor to the location to be changed.  
(On the SET-NUM screen, the cursor moves in a repeating loop of the following sequence: (A) higher order digit "+" → (B) lower order digit "+" → (C) higher order digit "-" → (D) lower order digit "-" → (E) "UPDATE" → (F) [△] → (A) higher order digit "+")
- ③ Every time the [SET] key is pressed, the numerical value of the digit at the cursor location will increase or decrease.
- ④ When both higher order and lower order digits indicate the desired numerical values, move the cursor to "UPDATE" and press the [SET] key to save the new values in the memory.
- ⑤ After the value is saved in the memory, move the cursor to the [△] symbol and press the [SET] key. The higher-level screen (OTHERS) reappears.
- ⑥ Confirm that the selected tally light level adjustment value has been applied to the "TALLY\_LOW" value on the OTHERS screen.

**Note 1 :** The setting value of "TALLY\_LOW" specifies the LOW PWM pulse width. Therefore, when "0" is set as the setting value, the light will be at the highest light level and when "99" is set, the light will be set at the lowest light level. Note that the tally light will not be turned off even when "99" is set.

**Note 2 :** When the "TALLY\_ADJUST" setting of the DIP-SW menu is set to "OFF," the default value will be applied for the tally light level regardless of the newly set tally light level value.

**Note 3 :** The newly set "TALLY\_LOW" value becomes valid when the Tally Lights HIGH/LOW/OFF Select Switch setting of the lens main body is changed. To change the setting value of this function, turn OFF the Tally Lights HIGH/LOW/OFF Select Switch of the lens main body once.

## 6 DIP SWITCHES ON SYSTEM BOARD

This section indicates the function of each bit switch of the dip switches (SW3150 and SW3151) on the system board. When a bit switch of the dip switch on the system board is set to “ON,” its ON/OFF setting can be changed using the LCD panel menus.

(When the bit switch of the dip switch on the board is set to “OFF,” the setting of this switch using the LCD panel menus will be fixed to “OFF.”)

### SW3151

Switch number	Name of Switch	Default setting	Name of function	Description
1	CAM[1]	OFF	Camera manufacturer setting	CAM[2] and CAM[1] are used for specifying the manufacturer of a camera (communication protocol) to be connected to the lens. Setting : [OFF, OFF] = SONY, [OFF, ON] = Panasonic, [ON, OFF] = GrassValley, [ON, ON] = Hitachi/Ikegami * HZK series lenses : Do not change the default.
2	CAM[2]	OFF		
3	RESERVE 0-3	OFF	Reserved	Do not change the default.
4	RESERVE 0-4	OFF		
5	RESERVE 0-5	OFF		
6	RESERVE 0-6	OFF		
7	TALLY-ADJUST	OFF	Tally light level (TALLY_LOW) adjustment ON/OFF	Sets the tally light level (TALLY_LOW). ON = Turns on the tally light (TALLY_LOW) at the light level that was set using the LCD panel menu. OFF = Turns on the tally light using the default light level (default value).
8	BACKLIGHT	OFF	LCD backlight adjustment ON/OFF	Sets the light level of the LCD panel backlight. ON = Turns on the backlight at the light level that was set using the LCD panel menu. OFF = Turns off the LCD backlight.

### SW3150

Switch number	Name of Switch	Default setting	Name of function	Description
1	CAMERA-SR	ON	Camera serial communication ON/OFF	Permits or prohibits serial communications with the camera. ON = Enables serial communications. OFF = Disables serial communications.
2	BCT	ON	Breathing Compensation Technology (BCT) ON/OFF	Compensates for the change in the field angle of the zooming operation caused by the focusing operation. ( BCT:Breathing Compensation Technology ) ON = Enables compensation for change in the field angle. OFF = Disables compensation for change in the field angle.
3	IRIS-GAINUP	ON	Auto iris increase gain function ON/OFF	Switches the feedback gain of iris in the auto iris mode. ON =1/8 OFF=1/16
4	IRIS-COMP	ON	Iris compensation function ON/OFF	Compensates for the phenomenon where the transmitted light intensity changes depending on whether the extender is used or not. ON = Compensates. OFF = Does not compensate.
5	IRIS-CLOSE	ON	Forced close function ON/OFF	Sets the characteristic of the control function for closing the iris by either a camera or external device. ON = Forcibly closes the iris when the iris control signal exceeds the threshold. OFF = Closes the iris in accordance with the iris control signal sent from the camera.
6	RESERVE 1-6	ON	Reserved	Do not change the default.
7	Z/F-CUSTOM	ON	Customization function ON/OFF	Sets whether to use the operating characteristic curve of zooming and focusing operations set by a user or use the default values as is. Sets whether to use the operating characteristic curve and stopping speed of zooming and focusing operations set by a user or use the default values as is. ON = Uses the customization function. OFF = Uses default values for the characteristic of the zooming and focusing operations. (The settings for the characteristic of the zooming and focusing operations can be set to “ON” or “OFF” individually using the LCD panel menus.)
8	RESERVE 1-8	ON	Reserved	Do not change the default.

**Note 1 :** Set the corresponding individual switch on the system board to “ON” when each switch function is set using the LCD panel menus. When the dip switch is set to “OFF,” the setting of this switch using the LCD panel menus will be fixed to “OFF” (higher priority to “OFF”).

**Note 2 :** Even if the dip switch is set to “ON,” the function set to “OFF” using the LCD panel menus, will function as “OFF.” For the operations of the system, be sure to confirm both the dip switch settings and the settings made using the LCD panel menus.

**FUJIFILM**

富士フイルム株式会社

〒107-0052 東京都港区赤坂 9-7-3  
<http://fujifilm.jp/>

**FUJIFILM Corporation**

7-3, Akasaka 9-Chome, Minato-ku, Tokyo 107-0052, Japan  
<http://www.fujifilm.com/>